



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/088,724C

DATE: 09/23/2004

TIME: 12:22:37

Input Set : A:\3rd Sub Seq List.txt

Output Set: N:\CRF4\09232004\J088724C.raw

3 <110> APPLICANT: Nishimoto, Ikuo
 5 <120> TITLE OF INVENTION: HUMANIN, A POLYPEPTIDE SUPPRESSING NEURONAL DEATH
 7 <130> FILE REFERENCE: KUV-102DP1PCT1-US
 9 <140> CURRENT APPLICATION NUMBER: US 10/088,724C
 10 <141> CURRENT FILING DATE: 2002-06-14
 12 <150> PRIOR APPLICATION NUMBER: PCT/JP00/06314
 13 <151> PRIOR FILING DATE: 2000-09-14
 15 <150> PRIOR APPLICATION NUMBER: JP 11/264679
 16 <151> PRIOR FILING DATE: 1999-09-17
 18 <150> PRIOR APPLICATION NUMBER: JP 2000/201456
 19 <151> PRIOR FILING DATE: 2000-06-29
 21 <160> NUMBER OF SEQ ID NOS: 102
 23 <170> SOFTWARE: PatentIn version 3.1
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 85
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Artificial
 30 <220> FEATURE:
 31 <223> OTHER INFORMATION: artificially synthesized sequence
 33 <400> SEQUENCE: 1
 34 aattcaccat ggctccacga gggttcagct gtctcttact tttaaccagt gaaattgacc 60
 36 tgcccgtgaa gagggcgggca ggtac 85
 39 <210> SEQ ID NO: 2
 40 <211> LENGTH: 77
 41 <212> TYPE: DNA
 42 <213> ORGANISM: Artificial
 44 <220> FEATURE:
 45 <223> OTHER INFORMATION: artificially synthesized sequence
 47 <400> SEQUENCE: 2
 48 ctggccgcct cttcacgggc aggtcaattt cactggtaa aagtaagaga cagctgaacc 60
 50 ctcgtggagc catggtg 77
 53 <210> SEQ ID NO: 3
 54 <211> LENGTH: 79
 55 <212> TYPE: DNA
 56 <213> ORGANISM: Artificial
 58 <220> FEATURE:
 59 <223> OTHER INFORMATION: artificially synthesized sequence
 62 <400> SEQUENCE: 3
 63 ctggccgcct cttcacgggc aggtcaattt cactggtaa aagtaagaga cagctgaacc 60
 65 ctcgtggagc catggtg 79
 68 <210> SEQ ID NO: 4
 69 <211> LENGTH: 75
 70 <212> TYPE: DNA

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71 <213> ORGANISM: Homo sapiens

73 <220> FEATURE:

74 <221> NAME/KEY: CDS

75 <222> LOCATION: (1)..(72)

76 <223> OTHER INFORMATION:

W--> 78 <400> 4

79 atg gct cca cga ggg ttc agc tgt ctc tta ctt tta acc agt gaa att 48

80 Met Ala Pro Arg Gly Phe Ser Cys Leu Leu Leu Thr Ser Glu Ile

81 1 5 10 15

83 gac ctg ccc gtg aag agg cg gca tga 75

84 Asp Leu Pro Val Lys Arg Arg Ala

85 20

88 <210> SEQ ID NO: 5

89 <211> LENGTH: 24

90 <212> TYPE: PRT

91 <213> ORGANISM: Homo sapiens

93 <400> SEQUENCE: 5

94 Met Ala Pro Arg Gly Phe Ser Cys Leu Leu Leu Thr Ser Glu Ile

95 1 5 10 15

97 Asp Leu Pro Val Lys Arg Arg Ala

98 20

101 <210> SEQ ID NO: 6

102 <211> LENGTH: 34

103 <212> TYPE: PRT

104 <213> ORGANISM: Artificial

106 <220> FEATURE:

107 <223> OTHER INFORMATION: artificially synthesized sequence (sHN-FLAG)

109 <400> SEQUENCE: 6

110 Met Ala Pro Arg Gly Phe Ser Cys Leu Leu Leu Thr Ser Glu Ile

111 1 5 10 15

113 Asp Leu Pro Val Lys Arg Arg Ala Gly Thr Asp Tyr Lys Asp Asp Asp

114 20 25 30

116 Asp Lys

120 <210> SEQ ID NO: 7

121 <211> LENGTH: 24

122 <212> TYPE: PRT

123 <213> ORGANISM: Artificial

125 <220> FEATURE:

126 <223> OTHER INFORMATION: artificially synthesized sequence (HNR)

128 <400> SEQUENCE: 7

129 Met Ala Pro Arg Gly Phe Ser Cys Arg Leu Leu Leu Thr Ser Glu Ile

130 1 5 10 15

132 Asp Leu Pro Val Lys Arg Arg Ala

133 20

136 <210> SEQ ID NO: 8

137 <211> LENGTH: 24

138 <212> TYPE: PRT

139 <213> ORGANISM: Artificial

141 <220> FEATURE:

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PATENT APPLICATION: US/10/088,724C

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142 <223> OTHER INFORMATION: artificially synthesized sequence (HNG)
144 <400> SEQUENCE: 8
145 Met Ala Pro Arg Gly Phe Ser Cys Leu Leu Leu Thr Gly Glu Ile
146 1 5 10 15
148 Asp Leu Pro Val Lys Arg Arg Ala
149 20
152 <210> SEQ ID NO: 9
153 <211> LENGTH: 24
154 <212> TYPE: PRT
155 <213> ORGANISM: Artificial
157 <220> FEATURE:
158 <223> OTHER INFORMATION: artificially synthesized sequence (HNA)
160 <400> SEQUENCE: 9
161 Met Ala Pro Arg Gly Phe Ser Ala Leu Leu Leu Thr Ser Glu Ile
162 1 5 10 15
164 Asp Leu Pro Val Lys Arg Arg Ala
165 20
168 <210> SEQ ID NO: 10
169 <211> LENGTH: 24
170 <212> TYPE: PRT
171 <213> ORGANISM: Artificial
173 <220> FEATURE:
174 <223> OTHER INFORMATION: artificially synthesized sequence
176 <400> SEQUENCE: 10
177 Met Ala Pro Arg Gly Phe Ser Cys Leu Leu Leu Thr Ser Glu Ile
178 1 5 10 15
180 Asp Leu Pro Val Ala Ala Ala Ala
181 20
184 <210> SEQ ID NO: 11
185 <211> LENGTH: 19
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial
189 <220> FEATURE:
190 <223> OTHER INFORMATION: artificially synthesized sequence
192 <400> SEQUENCE: 11
193 ggggtttgag cttgaacgc 19
196 <210> SEQ ID NO: 12
197 <211> LENGTH: 23
198 <212> TYPE: PRT
199 <213> ORGANISM: Artificial
201 <220> FEATURE:
202 <223> OTHER INFORMATION: artificially synthesized sequence (deltaN1-Humanin)
204 <400> SEQUENCE: 12
205 Ala Pro Arg Gly Phe Ser Cys Leu Leu Leu Thr Ser Glu Ile Asp
206 1 5 10 15
208 Leu Pro Val Lys Arg Arg Ala
209 20
212 <210> SEQ ID NO: 13
213 <211> LENGTH: 22

RAW SEQUENCE LISTING
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Input Set : A:\3rd Sub Seq List.txt
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214 <212> TYPE: PRT
215 <213> ORGANISM: Artificial
217 <220> FEATURE:
218 <223> OTHER INFORMATION: artificially synthesized sequence (deltaN2-Humanin)
220 <400> SEQUENCE: 13
221 Pro Arg Gly Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu
222 1 5 10 15
224 Pro Val Lys Arg Arg Ala
225 20
228 <210> SEQ ID NO: 14
229 <211> LENGTH: 21
230 <212> TYPE: PRT
231 <213> ORGANISM: Artificial
233 <220> FEATURE:
234 <223> OTHER INFORMATION: artificially synthesized sequence (deltaN3-Humanin)
236 <400> SEQUENCE: 14
237 Arg Gly Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu Pro
238 1 5 10 15
240 Val Lys Arg Arg Ala
241 20
244 <210> SEQ ID NO: 15
245 <211> LENGTH: 20
246 <212> TYPE: PRT
247 <213> ORGANISM: Artificial
249 <220> FEATURE:
250 <223> OTHER INFORMATION: artificially synthesized sequence (deltaN4-Humanin)
252 <400> SEQUENCE: 15
253 Gly Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu Pro Val
254 1 5 10 15
256 Lys Arg Arg Ala
257 20
260 <210> SEQ ID NO: 16
261 <211> LENGTH: 19
262 <212> TYPE: PRT
263 <213> ORGANISM: Artificial
265 <220> FEATURE:
266 <223> OTHER INFORMATION: artificially synthesized sequence (deltaN5-Humanin)
268 <400> SEQUENCE: 16
269 Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu Pro Val Lys
270 1 5 10 15
272 Arg Arg Ala
276 <210> SEQ ID NO: 17
277 <211> LENGTH: 18
278 <212> TYPE: PRT
279 <213> ORGANISM: Artificial
281 <220> FEATURE:
282 <223> OTHER INFORMATION: artificially synthesized sequence (deltaN6-Humanin)
284 <400> SEQUENCE: 17
285 Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu Pro Val Lys Arg

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DATE: 09/23/2004
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Input Set : A:\3rd Sub Seq List.txt
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286 1	5	10	15
288 Arg Ala			
292 <210> SEQ ID NO: 18			
293 <211> LENGTH: 17			
294 <212> TYPE: PRT			
295 <213> ORGANISM: Artificial			
297 <220> FEATURE:			
298 <223> OTHER INFORMATION: artificially synthesized sequence (deltaN7-Humanin)			
300 <400> SEQUENCE: 18			
301 Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu Pro Val Lys Arg Arg			
302 1	5	10	15
304 Ala			
308 <210> SEQ ID NO: 19			
309 <211> LENGTH: 16			
310 <212> TYPE: PRT			
311 <213> ORGANISM: Artificial			
313 <220> FEATURE:			
314 <223> OTHER INFORMATION: artificially synthesized sequence (deltaN8-Humanin)			
316 <400> SEQUENCE: 19			
317 Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu Pro Val Lys Arg Arg Ala			
318 1	5	10	15
321 <210> SEQ ID NO: 20			
322 <211> LENGTH: 16			
323 <212> TYPE: PRT			
324 <213> ORGANISM: Artificial			
326 <220> FEATURE:			
327 <223> OTHER INFORMATION: artificially synthesized sequence (deltaN2 deltaC6-Humanin)			
329 <400> SEQUENCE: 20			
330 Pro Arg Gly Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu			
331 1	5	10	15
334 <210> SEQ ID NO: 21			
335 <211> LENGTH: 17			
336 <212> TYPE: PRT			
337 <213> ORGANISM: Artificial			
339 <220> FEATURE:			
340 <223> OTHER INFORMATION: artificially synthesized sequence (deltaN2 deltaC5-Humanin;			
HN-17			
341)			
343 <400> SEQUENCE: 21			
344 Pro Arg Gly Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu			
345 1	5	10	15
347 Pro			
351 <210> SEQ ID NO: 22			
352 <211> LENGTH: 18			
353 <212> TYPE: PRT			
354 <213> ORGANISM: Artificial			
356 <220> FEATURE:			
357 <223> OTHER INFORMATION: artificially synthesized sequence (deltaN2 deltaC4-Humanin)			
359 <400> SEQUENCE: 22			
360 Pro Arg Gly Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu			

RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:63; Xaa Pos. 2,3,4,5,8,9
Seq#:64; Xaa Pos. 2,3,4,5,8,9
Seq#:65; Xaa Pos. 2,3,4,5,8,9
Seq#:66; Xaa Pos. 1,2,3,4
Seq#:83; Xaa Pos. 1,2,3,4
Seq#:100; Xaa Pos. 2,3,4,5,8,9
Seq#:101; Xaa Pos. 2,3,4,5,6,7,8,9,12,13,14,15,16
Seq#:102; Xaa Pos. 2,3,4,5,6,7,8,9,12,13,14,15,16

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29
Seq#:30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53
Seq#:54,55,56,57,58,59,60,61,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78
Seq#:79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101
Seq#:102

VERIFICATION SUMMARY DATE: 09/23/2004
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L:78 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:4,Line#:76
L:1040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
L:1083 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0
L:1126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0
L:1159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:0
L:1402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:0
L:1655 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:0
L:1733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:0
L:1811 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102 after pos.:0